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FORM PTO-1595

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To the Honorable Commissioner of Patents and Trademarks: Please record the att...

1. Name of conveying party(ies):

J. MICHAEL RAMSEY and STEPHEN C. JACOBSON

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):

Name: LOCKHEED MARTIN ENERGY RESEARCH CORPORATION

Internal Address: _____

Street Address: Oak Ridge National Laboratory

P.O. Box 2008

City: Oak Ridge State/Country: TENNESSEE ZIP: 37831-6255

3. Nature of conveyance:

Assignment

Merger

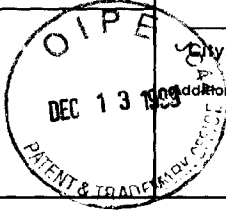
Security Agreement

Change of Name

Other _____

Additional name(s) & address(es) attached? Yes No

Execution Date: November 19, 1999



4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/408,060

Additional Application/Patent Numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: VINCENT T. PACE

Address: DANN, DORFMAN, HERRELL AND SKILLMAN, P.C.

1601 Market Street, Suite 720

Philadelphia, Pennsylvania 19103-2307

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6. Total number of applications and patents involved:..... 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account No. 04-1406

8. In the event the check enclosed is improper, or the fee calculation is in error, the Commissioner is authorized to charge any underpayment or credit any overpayment to the account of the undersigned attorneys.

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Vincent T. Pace

VINCENT T. PACE

Name of Attorney Signing

Signature of Attorney

December 8, 1999

Date

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PATENT
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ASSIGNMENT

WHEREAS, WE, the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in **MICROFLUIDIC DEVICES FOR THE CONTROLLED MANIPULATION OF SMALL VOLUMES** described in a provisional application for Letters Patent of the United States, Application No. 60/148,502, filed August 12, 1999, and described and claimed in a non-provisional application for Letters Patent of the United States, Application No. 09/408,060, filed September 29, 1999; and

WHEREAS, LOCKHEED MARTIN ENERGY RESEARCH CORPORATION, a corporation of the State of Delaware, having an office at Oak Ridge National Laboratory, Post Office Box 2008, Oak Ridge, Tennessee 37831-6255, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

Docket No. ERID 0686

Full name of first inventor: J. MICHAEL RAMSEY

Signature: J. Michael Ramsey Date: 11/19/99

Residence: Knoxville, Tennessee

Post Office Address: 733 Hampton Roads Drive, Knoxville, Tennessee 37922

State of Tennessee)
County of Roane)

On this 19th day of November, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared J. MICHAEL RAMSEY to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Spafford
Notary Public

SEAL
My Commission Expires: Sept. 27, 2000

My commission expires Sept. 27, 2000

Full name of second inventor: STEPHEN C. JACOBSON

Signature: Steph C Jacobson Date: 11/19/99

Residence: Knoxville, Tennessee

Post Office Address: 3639 Taliluna Dr., #D-1, Knoxville, Tennessee 37919

State of Tennessee)
County of Roane)

On this 19th day of November, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared STEPHEN C. JACOBSON to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Spafford
Notary Public

SEAL
My Commission Expires:

My commission expires Sept. 27, 2000